

**IN THE SPECIFICATION**

At page three, amend the third full paragraph as follows:

Moreover, a mean of a forwarding table of a layer 2 equipment controlled by a layer 3 equipment, which can control authorized reception in a certain extent, has been provided. ~~CISCO Inc develops a CISCO Group Management Protocol (named CGMP for short), which is used for solving a multicast forward flooding problem under circumstance of an Ethernet switch; with the CGMP, a layer 3 equipment can control a forwarding table of a layer 2 equipment, which provides a mean to control authorized reception in a certain extent.~~ As shown in Fig. 1, controlling message used for controlling the forwarding table of a layer 2 equipment ~~CGMP~~ message is composed by number of edition (Ver, 4 bits), Type (3 bits), Reserved part (2 bytes), number of GDA/USA pairs in the message (Count, 1 byte) and several GDA/USA pairs. Wherein, the GDA (Group Destination Address) is a MAC multicast address that corresponds to an IP address of the multicast group that the host wants to join in; the USA (Unicast Source Address) is a MAC address of the host which wants to join in the multi cast group and is a unicast address.

At page four, amend the first and second full paragraphs as follows:

As shown in Fig. 2, process of the mean of forwarding table of a layer 2 equipment controlled by a layer 3 equipment ~~CGMP~~ is as follows. Host 1 sends an IGMP Membership Report message to join in multicast group 224.1.2.3; the switch uses MAC address 0100.5e01.0203 that corresponds to the address of multicast group resolved from the message to search its matching terms in a CAM (CAM: Content-Addressable Memory) table; because there is no its matching terms in the CAM table, the message is forwarded (flooding) to all the ports, including a CPU and multicast routers. Wherein, after receiving the IGMP Membership Report message, the multicast router, besides implementing routine disposal, produces a ~~CGMP~~ join message and multicasts to the switch, which comprises the MAC address (USA: 0080.c7a2.1093) of the host which applies to join in the multicast group, the MAC address (GDA: 0100.5e01.0203) of the multicast group which is applied to join in, as well as a Join command field. After receiving the ~~CGMP~~ Join message, the switch may add an entry in the CAM table, which includes the GDA (0100.5e01.0203 in the drawings), the port number (marked as 2 in the drawings) of the host which wants to join in the multicast group, and the port number (marked as 1 in the drawings) of the multicast router

that connects with the switch. Wherein, the port number of the host is obtained through searching the USA.

As shown in Fig. 3, when the fourth host 4 joins in multicast group 224.1.2.3, it will similarly send the IGMP Membership Report message to the switch; after having resolved the IP address of the destination group is 224.1.2.3, the switch may find the entry after searching in the CAM table with the corresponding MAC address 0100.5e01.0203 of the IP address, and forward the message to port 1 and 2 (which are the multicast router and host 1 respectively) listed in the entry. After receiving the IGMP Membership Report message, besides making routine disposal, the multicast router produces a ~~CGMP~~ Join message and multicasts to the switch, which comprises the MAC address of the host which applies to join in the multicast group (USA: 0800.c7b3.2174) and the MAC address (GDA: 0100.5e01.0203) of the multicast group which is applied to join in, as well as the Join command field. After receiving the ~~CGMP~~ Join message, the switch may obtain an entry through searching in the CAM table with GDA, and get port number 5 of host 4 via searching in the CAM table with USA, meanwhile add port number 5 in the entry.

At page five, amend the fourth paragraph as follows:

Defects of the mean of a forwarding table of a layer 2 equipment controlled by a layer 3 equipment ~~the CGMP means of CISCO Inc~~ can be notices as follows.

At page five, amend the eighth paragraph as follows:

It is another object to provide the method for implementing controlled multicast, in order to solve multicast disadvantages of the prior arts, which include synergic method between the IGMP extension and the RADIUS extension, and the mean of a forwarding table of a layer 2 equipment controlled by a layer 3 equipment ~~the CGMP of CISCO Inc~~; at the same time, the method can preferably solve problems of authorization authentication and controlled join of the sender and receiver which participate in the multicast.

At page ten, amend the fourth, fifth and sixth full paragraphs as follows:

Fig. 1 is a schematic diagram of the CGMP-controlling message format in the prior art.

Fig. 2 is a schematic diagram illustrating flow direction of the signal that host 1 first joins in multicast group 224.1.2.3 in process of the mean of a forwarding table of a layer 2 equipment controlled by a layer 3 equipment~~CGMP~~ in the prior art.

Fig. 3 is a schematic diagram illustrating flow direction of the signal that host 4 second joins in multicast group 224.1.2.3 in process of the mean of a forwarding table of a layer 2 equipment controlled by a layer 3 equipment~~CGMP~~ in the prior art.